

Data Sheet: CellGro[®] / CellGenix[™]
Recombinant Human Granulocyte Macrophage-
Colony Stimulating Factor (rh GM-CSF)
Preclinical Grade - Order No.: 1412-010 / 1412-050

Source	A DNA sequence encoding the mature GM-CSF protein was expressed in <i>E. coli</i>
Production	Terminal manufacturing steps and QC are performed in a GMP facility
Molecular mass	The methionyl form of the <i>E. coli</i> expressed mature human GM-CSF contains 128 amino acid residues and has a molecular mass of 14.5 kDa
Purity	≥ 95%, as determined by SDS-PAGE
Endotoxin level	< 1000 EU/mg, as determined by LAL gel clot test
Activity	≥ 8x10 ⁶ IU/mg calibrated with the 1 st International Standard NIBSC, # 88/646 Measured in a cell proliferation assay using a human factor-dependent cell line, TF-1
Sterility	Sterility test of the vial product (direct inoculation)
Formulation	Lyophilized from a protein solution in PBS without any carrier materials and preservatives
Amount per vial	50 µg or 10 µg, as determined by spectrophotometrical measurement at 280 nm using PBS as reference
Transport	Ambient temperature
Storage at	-20°C or below. Avoid repeated freeze-thaw cycles
Shelf life	Minimum 6 months from date of shipment
Intended use	For preclinical ex vivo use. Not intended for therapeutic use.

Manufacturer

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